

Console 250 Electronic Air Cleaner



Manual for:

Installation • Operation • Maintenance

for Model No. 442857 series and 445600 series

120V/60Hz/1pH • 230V/50Hz/1pH • 220V/60Hz/1pH

CAUTION: Read installation instructions and rules carefully for safe operation.
Exercise the usual precautions when working with high voltage.

TRION[®]

BEST AVAILABLE COPY

TABLE OF CONTENTS

	PAGE
Introduction	1
How Trion's Electronic Air Cleaner Works	1
Preparing for Operation	2
Unit Location	2
Operation	3
Care of Cabinet	4
Electronic Cell	4
To Remove Cell for Cleaning	4
Replacement of Charcoal/Antibacterial Filter	5
To Clean Cell	5
To Replace Cell After Cleaning	6
Troubleshooting Checklist	8
Replacement Parts	9

INTRODUCTION

Your Trion air cleaner has been designed to let you enjoy a refreshing experience in clean air living.

Airborne particles and odors are removed from air passing through the unit by the process of electrostatic precipitation and an activated charcoal filter.

NOTE: This owner's manual should be read thoroughly before your air cleaner is operated. Retain your owner's manual for future reference.

HOW TRION'S TRUE ELECTRONIC AIR CLEANER WORKS

The air around you is filled with thousands of particles of air pollution. Some of the pollutants - dust, smoke and lint are visible to the naked eye, but most of the pollutants - pollen and bacteria, to name a few, are microscopic in size.

Polluted air enters the unit through the front of the air cleaner (Figure 1). The fan pulls in dirty air and the pre-filter (Figure 2) traps large particles (hair, lint, etc.). The smaller particles (dust, smoke, pollen) in the dirty air receive a positive electrical charge as they pass through the ionizing section (Figure 2). The positively charged particles then enter the collecting section (Figure 2) which uses a series of alternately charged aluminum plates to attract and retain the particles. It works like a powerful magnet and the particles remain there through natural adhesion until removed by the washing process. The air then passes through a charcoal filter (Figure 2) that helps remove household odors. Some models are equipped with an antibacterial

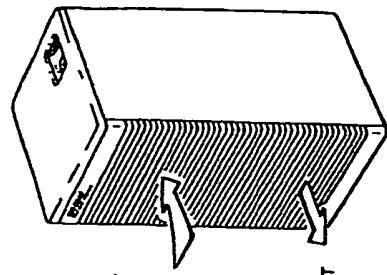
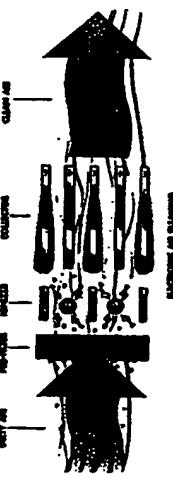


Figure 1

BEST AVAILABLE COPY

treated filter which will inhibit the growth of airborne bacteria, mold, fungus and other microorganisms trapped by the filter. Finally, electronically cleaned air passes back into the room through the bottom grille (Figure 1).



PREPARING FOR OPERATION

1. Remove the polybag surrounding your air cleaner.

2. Remove the cabinet top by lifting up. Using the cell handle, remove the collector cell from the cabinet. Next, remove the plastic bag covering the after-filter. Place the after-filter in the slots provided on the back of the collector cell.

3. Install the collector cell into the air cleaner. (Metal aluminum pre-filter will face the front grille.)

4. Replace the cabinet top.

Your air cleaner is now ready for operation.

UNIT LOCATION

Select the location for your air cleaner with an electrical outlet nearby. An example of locating your air cleaner is shown in Figure 3.

NOTE: Do not use an extension cord to supply power to your air cleaner.

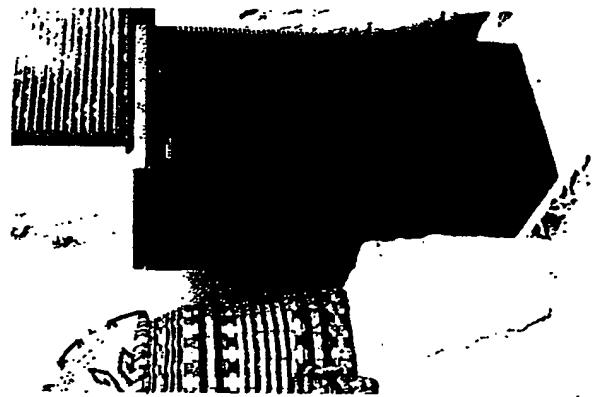


Figure 3

OPERATION



Plug the cord into any standard household electrical outlet. (See data label for electrical specifications and power consumption. This data label can be seen when the cabinet top is removed.)



Turn the unit on by turning the On/Off switch to the desired speed. (•(Low), ••(Med), •••(High) - Figure 4). The air cleaner should be set on •••(High) for one minute initially before switching to desired speed. Your electronic air cleaner is designed for continuous operation -peak efficiency is obtained if the air cleaner remains on constantly.

Some models are equipped with a Power Boost switch to provide maximum cleaning efficiency of indoor air that is excessively dirty. Simply move the rocker switch located in the control panel (Figure 4) from the smaller lightning bolt position (Normal) to the larger lightning bolt position (Power Boost). Although you will not hear a difference, the Power Boost position actually increases the electrical charge being applied to the dirty air and provides maximum collection efficiency. The unit can be operated in the Power Boost position at any of the three fan speeds.

An operating light is located on the top of the unit and indicates that the unit is operating. (Figure 5)

The ♫ (Fan Only) switch is provided to assist in the dry cycle after cleaning the cell. The light does not come on during the fan cycle because the cell is not activated.

NOTE: You may notice an occasional, sharp snapping sound coming from your unit. This is a normal occurrence called "arcing" and results as large particles of dust are collected in the ionizing-collecting cell. Should prolonged or continuous arcing occur, the ionizing-collecting cell should be thoroughly cleaned and dried (See "To Clean Cell").

CARE OF CABINET

You should treat the cabinet of your air cleaner as you would any other piece of fine furniture. Soft cloths and furniture polish will keep it clean and attractive for many years. The front grille can be cleaned using a vacuum cleaner with a brush attachment.

ELECTRONIC CELL

After several weeks of collecting dirt, dust, pollen and other pollutants, the electronic cell of your unit will need to be cleaned.

TO REMOVE CELL FOR CLEANING

Turn off the air cleaner and unplug it from the electrical power source. Remove cabinet top by lifting up and lift out the cell using the flip-up handle. (Figure 6)

The front metal filter (metal mesh) is the pre-filter. The electronic collecting

cell is the middle (large) filter and the after-filter is in the back of the cell assembly. (Figure 7)

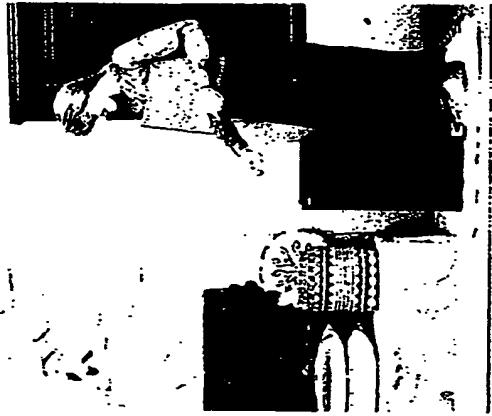


Figure 4

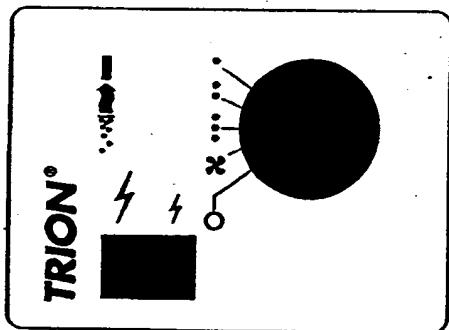


Figure 5

OPERATING
LIGHT

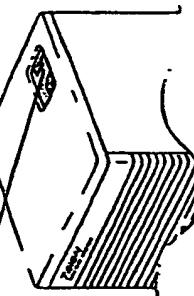


Figure 6

REPLACEMENT OF AFTER-FILTER

AFTER-FILTER HELPS REMOVE HOUSEHOLD ODORS

Washing the after-filter with soap and water will destroy its ability to adsorb odor. However, lint and dirt buildup can be removed with a vacuum cleaner using a brush attachment.

Odor adsorption effectiveness will gradually deteriorate and the after-filter should be replaced every (3-4) months.

TO CLEAN CELL

NOTE: When handling the collecting cell, care should be taken to avoid damaging wires and metal plates. (Do not wash after-filter.)

Slide out pre-filter located on front of the cell. Rinse thoroughly with clean warm water. Set aside to dry.

Use dishwashing detergent and the hottest water available to make a good soaking solution.

NOTE: If the cell is extremely dirty, spray the cell with a household cleaning agent. Let the cell soak five (5) minutes before proceeding to washing instructions.

Completely immerse the cell and soak for 20 to 30 minutes in a tub or large basin. (Figure 8)

After the cell has soaked sufficiently, agitate the cell up and down until clean.

Thoroughly rinse both sides of the cell. Check to make sure the cell plates are clean. (Figure 9) If not, gently repeat the wash procedure described in the 3 previous paragraphs if necessary.

NOTE: Slight discoloration of cell plates is normal after use.

Shake as much water out of the cell as possible. Replace cell in the unit as described in the next step.

Slide the metal pre-filter in the slots provided in the front of the cell.

Slide the after-filter in the slots provided in the back of the cell.

Using the handle, slide the cell assembly back into the cabinet. The cell handle must be flipped toward the back of the cell, so the cabinet top can be seated properly.

Replace the cabinet top by positioning over the unit and placing on cabinet. (Figure 10) Insure that the plastic ball and socket are engaged.

Plug the cord into the electrical power source. Operate the unit in "Fan Only" position for a minimum of one hour to insure the cell is thoroughly dry. After the cell is dry, unit can be operated normally.

NOTE: An occasional "arcing" sound is normal when operating the unit immediately after cleaning the cell and should stop after a few minutes of operation.

Figure 10

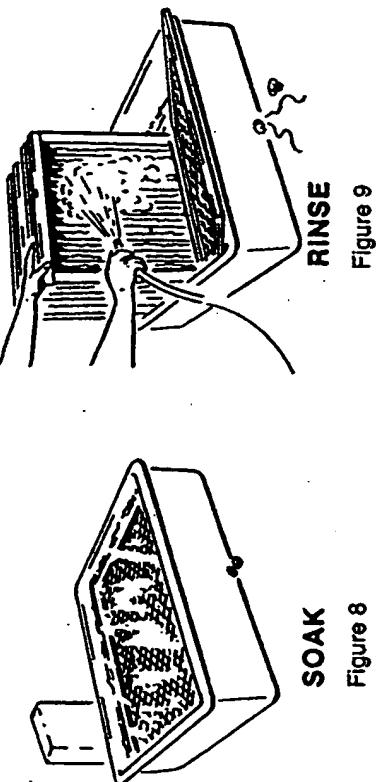
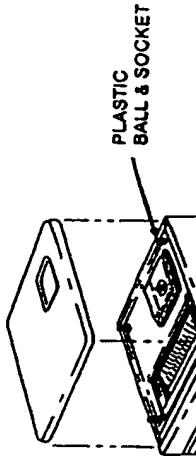


Figure 9

Figure 8

TO REPLACE CELL AFTER CLEANING

NOTE: Use directions on the side of the cell for proper placement of the filters into the cell and for replacing the cell into the unit. Unit will not operate properly if the cell is not replaced correctly.

TROUBLESHOOTING CHECK LIST

Many times service problems that appear to be major can be solved quite easily. The chart below lists potential problems and how to correct them. Remember, check the simple things first.

CONDITION	WHAT TO CHECK	WHAT TO DO
Unit fails to turn on.	1. Power Cord 2. On/Off Switch 3. Cabinet Top is properly installed 4. Cell is properly installed	1. Plug in power cord. 2. Set On/Off Switch to desired speed. 3. Refer to "To Replace Cabinet Top" 4. Use directions on the side of the cell. Metal pre-filter will face the front grille. Cell handle must be flipped toward the back of the cell.
Unit does not operate at Low speed.	Setting of On/Off Switch	Set On/Off Switch on High. Run unit for one minute and reset On/Off switch at Low speed.

Unit does not remove pollutants/ Reduced air flow	Ionizer-Collector Cell	1. Plastic bag covering charcoal after-filter not removed. Refer to "Preparing For Operation." 2. Wash ionizer-collector cell following the directions listed in "To Clean Cell." Operate unit for one week, remove the cell and look at the cell. If operating correctly, the cell will have a collection of "adhered pollutants" attached to the plates of the cell. (Should look like a thin layer of fine dust on cell plates.)
Unit sparks, crackles and pops.	Ionizer-Collector Cell	Wash the ionizer collector cell. Make sure the cell is thoroughly dry.

Unit still does not operate properly.	Recheck the above points	Have unit serviced.
--	-----------------------------	---------------------

- NOTES:
1. Discoloration of aluminum collector cell plates is normal with use, even after cleaning.
 2. Blowing smoke directly into the front grille is not a test for unit performance.

REPLACEMENT PARTS

Ref. No.	Description	Part No.
1	Cabinet Top	444018-001
2	Plastic Ball & Socket	142898-001
3	Switch Knob	242235-001
4	Metal Mesh Pre-filter	123324-003
5	Ionizer-Collector Cell	422167-105
6	Charcoal After-filter	222898-102
6A	Gas/Odor Filter*	243876-001
6B	Antibacterial After-filter	247699-103
7	Top Grille	442939-001
8	Bottom Grille	442839-002
9	Rubber Cabinet Mount (1) (4 required)	145151-001
10	Phillip Truss Head Machine Screw	142722-408

* Standard in Model No. 442857-018.

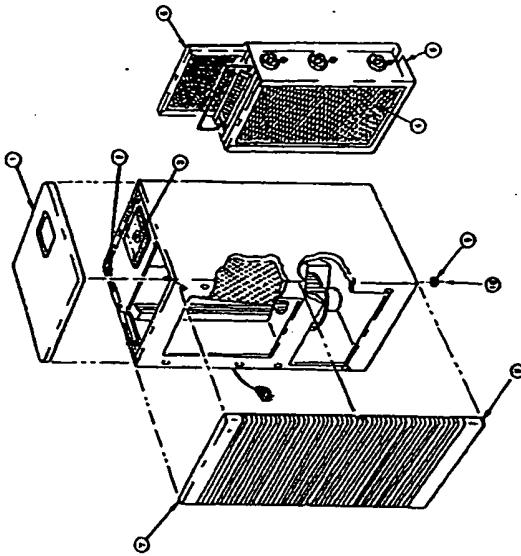


Figure 11

AIR CLEANER LIMITED ONE-YEAR WARRANTY

This limited warranty covers Triton Air Cleaners.

Triton, Inc. warrants that all new Triton Air Cleaners are free from defects in material and workmanship under normal, noncommercial use and service. Triton will remedy any such defects if they appear within 12 months from the date of purchase, subject to the terms and conditions of this Limited One-Year Warranty stated below:

1. THIS LIMITED ONE-YEAR WARRANTY IS GRANTED BY TRION, INC., MCNEILL ROAD, P.O. BOX 760, SANFORD, NORTH CAROLINA 27331.
2. This warranty shall extend only to any noncommercial owner who has purchased the appliance air cleaner other than for purposes of resale.
3. All components are covered by this limited warranty except expendable items, such as charcoal and other disposable filters.
4. If within the warranty period any Triton air cleaner unit or component requires service it must be returned to the place of purchase. The unit will be repaired or replaced at sellers option.
5. This limited warranty does not apply to any part or component that is: damaged in transit or when handling, has been subject to misuse, neglect or accident; has not been operated, maintained and serviced according to Triton's instructions; has been operated beyond the factory rated capacity, or altered in any such way that its performance is affected. There is no warranty due to neglect, alteration or ordinary wear and tear. Triton's liability is limited to replacement of defective parts or components and does not include the payment of the cost of labor charges to remove or replace such defective components or parts.
6. Triton will not be responsible for loss of use of any product, loss of time, inconvenience, or any other indirect, incidental or consequential damages with respect to person or property, whether as a result of breach of warranty, neglect or otherwise. **SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE LIMITATION OR EXCLUSION IN THE PRECEDING SENTENCE MAY NOT APPLY TO YOU.**
7. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.
8. Any warranty by Triton of merchantability, fitness for use or any other warranty (express, implied statutory), representation or guarantee other than those set forth herein, shall expire at the expiration date of this express limited warranty. **SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE LIMITATION IN THE PRECEDING SENTENCE MAY NOT APPLY TO YOU.**
9. Triton reserves the right to make changes in the design and material of its products without incurring any obligation to incorporate such changes in units completed on the effective date of such change.

TRION Inc.

P.O Box 760 • 101 McNeill Road • Sanford, North Carolina 27331-0760
Customer Service: (800) 227-3917 • Fax: (800) 458-2379
Triton Limited • Reith Way, West Portway Industrial Estate • Andover, Hampshire SP10 3TY
Tel: (01264) 364622 • Fax: (01264) 350983

THIS PAGE BLANK (USPTO)